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| icle I           |  | T200   | SERIE/SERIES   |   |  |  |  |
|------------------|--|--|--|---|--|--|--|
| int da<br>ersior |  | 19.06.2017<br>1.1  | Revision date 16.10.2016   | EN<br>Page 1 / 8  |  |  |  |
| ECT              | <b>ION 1: I</b>  | dentification o  | of the substance/mixture and of                                    | f the company/undertaking   |  |  |  |
| .1.              | product  | identifiers  |  |   |  |  |  |
|                  |  | <ul> <li>c. (manufacturer/<br/>tion of the substa</li> </ul> |  | ERIES   |  |  |  |
| 1.2.             | Relevant   | t identified uses  | of the substance or mixture and                                    | uses advised against  |  |  |  |
|                  | Relevant   | t identified uses  | :  |   |  |  |  |
|                  |  |  | Printing ink/<br>-lacquer  |   |  |  |  |
| 1.3.             | Details o  | of the supplier o  | f the safety data sheet  |   |  |  |  |
|                  |  |  | mporter/downstream user/distribution                               | utor)   |  |  |  |
|                  | RUCO Di<br>Lorsbach  | np & Co GmbH<br>ruckfarben<br>ler Str. 28<br>Eppstein        |  | ne: +49.61 98.30 40<br>+49.61 98.3 22 88                                  |  |  |  |
|                  |  | sponsible for inf  | formation:   |   |  |  |  |
|                  | E-mail   |  | info@ruc   | co-inks.com   |  |  |  |
|                  | Emergen  | ncy telephone n<br>cy telephone nui<br>ilable during offic   | umber +49.61 9   |   |  |  |  |
|                  | -  | Hazards identi   |  |   |  |  |  |
|                  |  |  |  |   |  |  |  |
|                  | Classification of the substance or mixture<br>Classification according to Regulation (EC) No 1272/2008 [CLP] |  |  |   |  |  |  |
|                  | The mixt   | ure is classified a  | as hazardous according to regulation                               | (EC) No 1272/2008 [CLP].  |  |  |  |
|                  |  | l. 3 / H226<br>E 3 / H336                                    | Flammable liquids<br>Specific target organ toxicity (<br>exposure) | Flammable liquid and vapour.<br>single May cause drowsiness or dizziness. |  |  |  |
| 2.2.             | Label ele  | ements   | . ,  |   |  |  |  |
|                  | Labelling  | g according to F   | Regulation (EC) No. 1272/2008 [CL                                  | <u>P]</u>   |  |  |  |
|                  | Hazard p   | oictograms   |  |   |  |  |  |
|                  |  |  | Warning  |   |  |  |  |
|                  | Hazard s   | statements   |  |   |  |  |  |
|                  | H226<br>H336   |  | mmable liquid and vapour.<br>y cause drowsiness or dizziness.      |   |  |  |  |
|                  |  | onary statemen   | -  |   |  |  |  |
|                  | P210<br>P370 + P<br>P403 + P   | - Ke<br>9378 In 6  |  |   |  |  |  |
|                  | contains   | :  |  |   |  |  |  |
|                  | 2-ethoxy-1-methylethyl acetate Supplemental Hazard information (EU)  |  |  |   |  |  |  |
|                  | EUH208   |  |  | cid esters. May produce an allergic reaction.                             |  |  |  |
|                  |  | zards  |  |   |  |  |  |
|                  | Other na   |  |  |   |  |  |  |

Product description / chemical characterization

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| ion                 | 1.1                |  | ge 2 / 8                     |
| Descrip             | <b>tion</b> S      | olvent containing pigment dispersion on resin basis  |                              |
| Hazardo             | ous ingredients    |  |                              |
| Classifi            | cation accordin    | ig to Regulation (EC) No 1272/2008 [CLP]   |                              |
| EC No.              |                    | EACH No.   |                              |
| CAS No<br>INDEX     | -                  | hemical name<br>assification: // Remark  | Wt %                         |
| 259-370             |                    | 1-2119475116-39-XXXX   |                              |
| 54839-2<br>603-177  | 24-6 2             | -ethoxy-1-methylethyl acetate<br>lam. Liq. 3 H226 / STOT SE 3 H336   | 10 - 15                      |
| 204-658             | 8-1 0              | 1-2119485493-29-XXXX   |                              |
| 123-86-4            |                    | -butyl acetate   | 10 - 15                      |
| 607-025             |                    | lam. Liq. 3 H226 / STOT SE 3 H336  |                              |
| 203-603             |                    | 1-2119475791-29-XXXX   |                              |
| 108-65-0            |                    | -methoxy-1-methylethyl acetate   | 5 - 10                       |
| 607-195             |                    | lam. Liq. 3 H226   |                              |
| 203-933             |                    | 1-2119475112-47-XXXX   | 5 40                         |
| 112-07-2<br>607-038 |                    | -butoxyethyl acetate<br>cute Tox, 4 H332 / Acute Tox, 4 H312   | 5 - 10                       |
| 204-626             |                    | 1-2119473975-21-XXXX   |                              |
| 123-42-2            |                    | -hydroxy-4-methylpentan-2-one  | 1 - 2,5                      |
| 603-016             |                    | ye Irrit. 2 H319   | ,•                           |
| 286-304             |                    | 1-2119979096-24-XXXX   |                              |
| 85204-1             | A                  | mmonium salt of carbonic acid esters<br>cute Tox. 4 H302 / Eye Dam. 1 H318 / Skin Sens. 1<br>hronic 3 H412 | 0,1 - 0,25<br>H317 / Aquatic |

#### Additional information

Full text of classification: see section 16

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

## 4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

#### 4.3. Indication of any immediate medical attention and special treatment needed

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons: strong water jet

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# 5.2. Special hazards arising from the substance or mixture

Inhaling hazardous decomposing products can cause serious health damage.

## 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

#### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

#### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

## Precautions against fire and explosion:

Vapours are heavier than air. Vapours form explosive mixtures with air.

## 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

#### Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

## Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

# 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## Occupational exposure limit values

n-butyl acetate INDEX No. 607-025-00-1 / EC No. 204-658-1 / CAS No. 123-86-4 TWA: 724 mg/m3; 150 ppm STEL: 966 mg/m3; 200 ppm

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2-methoxy-1-methylethyl acetate
INDEX No. 607-195-00-7 / EC No. 203-603-9 / CAS No. 108-65-6
WEL, TWA: 274 mg/m3; 50 ppm
WEL, STEL: 548 mg/m3; 100 ppm
2-butoxyethyl acetate
INDEX No. 607-038-00-2 / EC No. 203-933-3 / CAS No. 112-07-2
WEL, TWA: 133 mg/m3; 20 ppm
WEL, STEL: 332 mg/m3; 50 ppm
Remark: (May be absorbed through the skin.)
4-hydroxy-4-methylpentan-2-one
INDEX No. 603-016-00-1 / EC No. 204-626-7 / CAS No. 123-42-2

TWA: 241 mg/m3; 50 ppm STEL: 362 mg/m3; 75 ppm

#### Additional information

TWA : long-term occupational exposure limit value STEL : short-term occupational exposure limit value Ceiling : peak limitation

#### 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

#### Occupational exposure controls

#### **Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

#### Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl rubber)

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### Eye protection

Wear closely fitting protective glasses in case of splashes.

#### **Protective clothing**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

# Environmental exposure controls

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

| Appearance:                              |                |
|--|----------------|
| Physical state:                          | liquid         |
| Colour:                                  | refer to label |
| Odour:                                   | characteristic |
| Odour threshold:                         | not determined |
| pH at 20 °C:                             | not applicable |
| Melting point/freezing point:            | not determined |
| Initial boiling point and boiling range: | 126 °C         |
| Flash point:                             | 27 °C          |
| Evaporation rate:                        | not determined |

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|                   |  | bility (solid, gas):<br>g time (s):                        |                     | not applicable          |                  |  |
|                   | Lower  | wer flammability o<br>explosion limit:<br>explosion limit: | r explosive limits: | 0,6 Vol-%<br>10.8 Vol-% |                  |  |
|                   |  | pressure at 20 °C:   |                     | 15 mbar                 |                  |  |
|                   | Vapour   |  |                     | not determined          |                  |  |
|                   | Density  | density:<br>at 20 °C:                                      |                     | 1,09 g/cm³              |                  |  |
|                   | Solubilit<br>Water s   | y(ies):<br>olubility (g/L) at 20                           | °C:                 | insoluble               |                  |  |
|                   | Partition  | coefficient: n-octa  | nol/water:          | see section 12          |                  |  |
|                   | Ignition   | temperature in °C  |                     | 265 °C                  |                  |  |
|                   | Decomp   | osition temperatur   | e:                  | not applicable          |                  |  |
|                   | Viscosit   | y at 20 °C:  |                     | > 90 s 4 mm             |                  |  |
|                   |  |  |                     | Method: DIN 53211       |                  |  |
|                   | Explosiv   | e properties:  |                     | not applicable          |                  |  |
|                   | Oxidisin   | g properties:  |                     | not applicable          |                  |  |
| 9.2.              | Other in   | formation  |                     |                         |                  |  |
|                   | Solid co   | ntent (%):   |                     | 51,07 Wt %              |                  |  |
|                   | solvent  | content:   |                     |                         |                  |  |
|                   | -  | c solvents:  |                     | 48 Wt %                 |                  |  |
|                   | Water:   |  |                     | 0 Wt %                  |                  |  |
|                   |  | separation test (%)  |                     | < 3 Wt % (ADR/RID)      |                  |  |
|                   | ECTION 10: Stability and reactivity  |  |                     |                         |                  |  |
| 10.1.             | . Reactivity<br>Not applicable.  |  |                     |                         |                  |  |
| 10.2.             | <ul> <li>Chemical stability</li> <li>Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.</li> </ul>                       |  |                     |                         |                  |  |
| 10.3.             | <ul> <li>Possibility of hazardous reactions</li> <li>Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.</li> </ul>   |  |                     |                         |                  |  |
| 10.4.             | <ul> <li>Conditions to avoid</li> <li>Hazardous decomposition byproducts may form with exposure to high temperatures.</li> </ul>   |  |                     |                         |                  |  |
| 10.5.             | Incompatible materials<br>Not applicable.  |  |                     |                         |                  |  |
| 10.6.             | <ul> <li>Hazardous decomposition products</li> <li>Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.</li> </ul> |  |                     |                         |                  |  |
| SEC               | TION 11:   | Toxicological in   | formation           |                         |                  |  |
|                   |  | ation according to R<br>on preparation itself              |                     | 272/2008 [CLP]          |                  |  |
| 11.1.             |  | ion on toxicologic   |                     |                         |                  |  |
|                   | Acute to   | -  |                     |                         |                  |  |
|                   |  | gical data are not av                                      | ailable.            |                         |                  |  |
|                   |  | rosion/irritation; So                                      |                     | eye irritation          |                  |  |
|                   |  | gical data are not av                                      |                     |                         |                  |  |
|                   |  | ory or skin sensiti  |                     |                         |                  |  |
|                   | -  | gical data are not av                                      |                     |                         |                  |  |
|                   |  |  |                     |                         |                  |  |

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#### Specific target organ toxicity

Toxicological data are not available.

#### Aspiration hazard

Toxicological data are not available.

#### Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### **Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

# **SECTION 12: Ecological information**

#### overall evaluation

Classification according to Regulation (EC) No 1272/2008 [CLP] There is no information available on the preparation itself . Do not allow to enter into surface water or drains.

#### 12.1. Toxicity

Toxicological data are not available.

# 12.2. Persistence and degradability

Toxicological data are not available.

- 12.3. **Bioaccumulative potential** Toxicological data are not available.
- 12.4. **Mobility in soil** Toxicological data are not available.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Other adverse effects

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Appropriate disposal / Product

#### Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

#### List of proposed waste codes/waste designations in accordance with EWC

080312 waste ink containing dangerous substances

## packaging

# Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

## **SECTION 14: Transport information**

#### 14.1. UN number

#### 14.2. **UN proper shipping name** Land transport (ADR/RID): Sea transport (IMDG): Air transport (ICAO-TI / IATA-DGR):

14.3. **Transport hazard class(es)** Land transport (ADR/RID): UN 1210

Printing ink PRINTING INK Printing ink

KEINE GÜTER DER KLASSE 3 in containers > 450 I: class 3, item 31c

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|                   |   | port (IMDG)<br>ges < 30 litres:      |   | 3<br>Transport in accordance<br>IMDG Code. | with the provisions of paragraph 2.3.2.5 of the                    |  |
|                   | Air transpo   | ort (ICAO-TI / IATA                  | -DGR)   | 3  |  |  |
| 14.4.             | Packing g   | group                                |   |  | *  |  |
| 445               | <b>F</b> undation of the second   | antal hananda                        |   | 111  |  |  |
| 14.5.             |   | ental hazards                        |   | ant number bla                             |  |  |
|                   |   | sport (ADR/RID)                      |   | not applicable                             |  |  |
|                   | Marine po   |                                      |   | not applicable                             |  |  |
| 14.0.             | <ul> <li>Special precautions for user</li> <li>Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do case of an accident or leakage.</li> <li>Advices on safe handling: see parts 6 - 8</li> </ul>           |                                      |   |  |  |  |
|                   | Further in  | formation                            |   |  |  |  |
|                   | Land tran   | sport (ADR/RID)                      |   |  |  |  |
|                   |   | triction code                        |   | D/E  |  |  |
|                   | Sea trans   | port (IMDG)                          |   |  |  |  |
|                   | EmS-No.   | port ( <u>-</u> 0)                   |   | F-E, S-D                                   |  |  |
|                   |   | oort (ICAO-TI / IAT                  |   | , • _                                      |  |  |
| 447               | -   | -                                    | -   | mal and the IPC Code                       |  |  |
| 14.7.             | -   |                                      | g to Annex II of Ma                                 | rpol and the IBC Code                      |  |  |
|                   | not applica   |                                      |   |  |  |  |
|                   |   | Regulatory infor                     |   |  |  |  |
| 15.1.             | . Safety, health and environmental regulations/legislation specific for the substance or mixture *  |                                      |   |  |  |  |
|                   | EU legislation  |                                      |   |  |  |  |
|                   | Directive 2010/75/EU on industrial emissions<br>VOC-value (in g/L): 527,811   |                                      |   |  |  |  |
|                   | National regulations  |                                      |   |  |  |  |
|                   | <b>Restrictions of occupation</b><br>Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers<br>Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). |                                      |   |  |  |  |
|                   | Other reg   | ulations, restriction                | ons and prohibitior                                 | n regulations                              |  |  |
| 15.2.             |   | Safety Assessme<br>safety assessment |   | this preparation were not                  | carried out.   |  |
| SEC               | TION 16: (  | Other informatio                     | on  |  |  |  |
|                   |   | of classification in                 |   |  |  |  |
|                   | Flam. Liq.<br>STOT SE   |                                      | Flammable liquid<br>Specific target or<br>exposure) | ls<br>gan toxicity (single                 | Flammable liquid and vapour.<br>May cause drowsiness or dizziness. |  |
|                   | Acute Tox   |                                      | Acute toxicity (inl                                 |  | Harmful if inhaled.  |  |
|                   | Acute Tox   |                                      | Acute toxicity (de                                  |  | Harmful in contact with skin.                                      |  |
|                   | Eye Irrit. 2<br>Acute Tox   |                                      | Serious eye dam<br>Acute toxicity (or               |  | Causes serious eye irritation.<br>Harmful if swallowed.            |  |
|                   | Eye Dam.  |                                      | Serious eye dam                                     |  | Causes serious eye damage.   |  |
|                   | Skin Sens   | . 1 / H317                           | Respiratory or sk                                   | in sensitisation                           | May cause an allergic skin reaction.                               |  |
|                   | Remark  | hronic 3 / H412                      |   | aquatic environment                        | Harmful to aquatic life with long lasting effects.                 |  |
|                   | n.a. =  | not an                               | plicable  |  |  |  |
|                   |   | formation                            |   |  |  |  |
|                   |   |                                      | egulation (EC) No 1                                 | 272/2008 [CLP]                             |  |  |

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and

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EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in chapter 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version